

SECTION VI.—BIBLIOGRAPHY.

RECENT ADDITIONS TO THE WEATHER BUREAU LIBRARY.

C. FITZHUGH TALMAN, Professor in Charge of Library.

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies:

Aitken, John.

1. On dust, fogs, and clouds. 2. On dew. Edinburgh, London. 1917. 28 $\frac{1}{2}$ cm. (Reprinted from the Transactions of the Royal Society of Edinburgh, v. 30, p. 337-368; v. 33, p. 9-64.)

Annuaire astronomique et météorologique pour 1917 par Camille Flammarion. . . Paris [1917.] [4] 436 p. front. illus. figures. tables. 18cm. At head of title: 53e année. [Climatologie de l'année, 1915, p. [387]-409 with charts.]

Brazil. *Directoria de meteorologia e astronomia. Secção de meteorologia e physica do globo.*

Boletim meteorológico. Anno de 1910. Observações meteorológicas feitas no Observatorio nacional do Rio de Janeiro e nas estações da rede nacional. Bruxelles, n. d. ix, 173 p. tables. figures. fold. diagram. 3 fold. maps. 34 $\frac{1}{2}$ cm. At head of title: *Ministerio da agricultura, industria e commercio.* Preface in Spanish and French.

Brazil. *Observatorio nacional do Rio de Janeiro.*

Annuario para o anno de 1917. v. 33. Rio de Janeiro. 1917. vii, 480 p. tables. fold. diagram. 18 $\frac{1}{2}$ cm. At head of title: *Ministerio da agricultura, industria e commercio.* [Includes meteorological observations 1911-1915 at 27 stations.]

Briggs, Lyman James.

Comparison of the hourly evaporation rate of atmometers and free water surfaces with the transpiration rate of *Medicago sativa*, by L. J. Briggs and H. L. Shantz. Washington. 1917. plates. graphs. 26cm. (Reprinted from *Journal of agricultural research*, v. 9, no. 9.)

Chemulpo, Korea. *Meteorological observatory.*

Annual report for the year 1915. Jinsen. 1917. ii, 175 p. [1] tables. maps. diagrams. 30cm. (Last leaf in Japanese.)

Conseil permanent international pour l'exploration de la mer.

Bulletin hydrographique pour l'année juillet, 1914-juin, 1915. . . Copenague. 1917. ix, 28, 8 p. tables. 2 maps. diagram. 32 $\frac{1}{2}$ cm.

Cox, George Walter.

Intensity of rainfall in the Transvaal. 6 figures, 24 $\frac{1}{2}$ cm. (Excerpted from the South African journal of science, v. 12, July, 1916, p. [686]-693.) [Six rainfall charts.]

Denmark. *Meteorologiske institut.*

Nautisk meteorologisk aarbog: Nautical meteorological annual. 1916. Kjøbenhavn. 1917. lxviii, 153 p. tables. maps. 31cm. Text in Danish and English.

Diem, K.

Regenwissenschappen op Sumatra's oostkust en de oostkust en de oostkust van Atjeh in 1916. Medan. 1917. 19 p. tables. 25cm. (Mededeelingen van het Deli proefstation te Medan, Sumatra.)

Duchêne, Emile Auguste.

Flight without formulae; simple discussions on the mechanics of the aeroplane . . . tr. from the French by John H. Ledeboer; 2d ed. London, New York, [etc.] 1916. vii, 211 p. diagrams. 23cm.

Eredità, Filippo.

Il clima di Derna. Roma. 1916. 55 p. (incl. title-page) tables. 24 $\frac{1}{2}$ cm. At head of title: *Ministero delle colonie.* (Estratto dal Bollettino d'informazioni, anno 4, n. 7-9.)

Fergusson, Sterling Price.

Relation of snow to irrigation and forestry. The great importance of snow conservation and the methods used for determining the amount and value of snowfall. 25 $\frac{1}{2}$ cm. (Excerpted from *Science conspectus*, v. 3, no. 5. April, 1913, p. 152-157.)

Giorgi, Cosimo de.

Distribuzione delle piogge nella provincia di Lecce (Terra d'Otranto) col. map. 24cm. (Excerpted from *La geografia*, v. 5, May-June, 1917, p. 210-212.)

Grenfell, Wilfred Thomason, and others.

Labrador: the country and the people; new ed. with additional chapters. New York. 1913. xii, 529 p. front. (port.) plates. figures. map. 20cm. Bibliography, p. 519. [Climate, p. 69-80.]

Hamel, Gustav.

Flying; some practical experiences, by Gustav Hamel and C. C. Turner. London. 1914. xii, 341 p. front. plates. figures. tables. 23 $\frac{1}{2}$ cm. [Chapters 8-9. Winds and weather.]

Italy. *R. Esercito italiano. Sezione meteorologica.*

Bollettino N. 34. Sabato, 3 Febbraio, 1917. . . Notizie meteoriche della zona di guerra. 1 sheet. table. 25 $\frac{1}{2}$ x 35 $\frac{1}{2}$ cm.

Bollettino meteorico della zona di guerra . . . [Giorno 3 Febbraio, 1917. Ore 8.] 3 p. (incl. title-page.) table. 23 x 48cm.

Cartina meteorica della zona di guerra. Giorno 3 Febbraio, 1917-ore 8. 1 sheet. 49 $\frac{1}{2}$ x 71cm.

Clima della conca di Gorizia . . . Roma. 1916. 23 p. (incl. title-page). fold. table. 17cm. Pubbl. N. 10.

Clima e acque dell' Altipiano dei sette comuni. [Roma. 1916.] 54 p. (incl. title-page). fold. tables. 17cm. Pubbl. N. 8.

Clima e acque dell' Altipiano di Bainsizza S. Spirito o di Laschek . . . Roma. 1916. 15 p. (incl. title-page.) fold. table. 17cm. Pubbl. N. 9.

Indicazione di alcuni punti soggetti a valanghe. Pubbl. 12. [Parts] 1-15. Roma. 1916. [4] p. 14cm. [each.]

Neve nelle Alpi venete od orientali; valori annui medi dell' altezza, frequenza e durata. Roma. 1916. [4] p. 14cm. Pubbl. N. 13.

Notizie sul clima del Carso e delle coste triestine. Roma. 1916. 43 p. (incl. title-page.) tables. (partly fold.) 17cm. Pubbl. N. 6.

Notizie sulla bora friulana e triestina. Roma. 1917. 29 p. (incl. title-page). tables. 17cm. Pubbl. N. 14.

Pioggia, acqua e fango su terreni impermeabili; trincee e camminamenti scavati in tali terreni. (Edizione 2a.) Roma. 1917. 17 p. (incl. title page). 17cm. Pubbl. No. 16.

Primo anno di osservazioni meteorologiche nell'alto Isonzo (M. Nero) Giugno 1915-Giugno 1916. [Roma. 1916.] [4] p. table. 18cm. Pubbl. N. 7.

Valanghe nelle Alpi venete od orientali. Nozioni pratiche sopra i pericoli, le precauzioni, il salvataggio. Roma. 1916. 24 p. (incl. title-page). 17cm. Pubbl. N. 11.

Valanghe nelle Alpi venete od orientali . . . (Edizione 3a.) Roma. 1917. 30 p. (incl. title-page). 17cm. Pubbl. N. 15.

Osaka (Japan) *Meteorological observatory.*

Annual report. Pt. 2. Seismological observations in Osaka, 1916. Osaka. 1917. cover title, 27 [33] p. 3 fold. plates. tables. 25 $\frac{1}{2}$ cm. In English and Japanese. Running title: *Seismological bulletin.* [Twelve diagrams of earthquakes.]

Bodés, Luis.

Organización meteorológica en los Estados Unidos; su desarrollo progresivo en orden a la navegación y a los intereses agrícolas. Tortosa. 1917. 31 p. (incl. title-page). plates. 22cm.

Shreve, Forrest.

Rôle of winter temperatures in determining the distribution of plants. 25 $\frac{1}{2}$ cm. (Reprinted from *American journal of botany*, vol. 1, no. 4, April, 1914, p. [194]-202.)

Southern railway company.

Floods of July, 1916: How the Southern railway organization met an emergency; [ed. by J. C. Williams]. [Washington, D. C.: 1917. 131 p. (incl. title-page). illus. plates. fold. map] 31cm.

Spain. *Observatorio central meteorológico.*

Anuario del observatorio central meteorológico. Suplemento al tomo 1. Madrid. [1917]. [21] 185 p. [1] plate. tables. 4 fold. diagrams. 32cm. At head of title: *Dirección general del Instituto geográfico y estadístico. Director general: Marques de Teverga.*

Anuario . . . 2. Madrid. [1917]. vii, 259, [1], [2] p. tables. diagrams. (partly fold.) maps (partly fold.) 32cm.

Stonyhurst college observatory.

Results of meteorological, magnetical, and seismological observations, 1916 . . . Blackburn, 1917. xiv, 50 p. tables. 18 $\frac{1}{2}$ cm.

Theophrastus.

Enquiry into plants and minor works on odours and weather signs, with an Eng. tr. by Sir Arthur Hort. London, New York. 1916. 2 v. front. 17cm. (Loeb classical library.) Text in Greek and English. [Concerning weather signs, v. 2, p. 390-433.]

Upsala. Université. *Observatoire météorologique.*

Bulletin mensual. v. 48. Année 1916 . . . Upsala, 1916-17. 74 p. tables. 34 $\frac{1}{2}$ cm.

X, pseud.

Um estudo meteorologico de Angola. charts. 25xcm. [Excerpted from the Boletim of the Sociedade de geographia de Lisboa, 35a. Série, nos. 1-3, Janeiro a Março, 1917, p. 25-40.]

RECENT PAPERS BEARING ON METEOROLOGY AND SEISMOLOGY.

C. FITZHUGH TALMAN, Professor in Charge of Library.

The following titles have been selected from the contents of the periodicals and serials recently received in the library of the Weather Bureau. The titles selected are of papers and other communications bearing on meteorology and cognate branches of science. This is not a complete index of the meteorological contents of all the journals from which it has been compiled. It shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau.

Aeronautics. London. v. 12. May 9, 1917.

Cave, C. J. P. Some meteorological conditions which increase the danger of flying. p. 336-340.

American philosophical society. Proceedings. Philadelphia. v. 56. no. 1. 1917.

Marvin, Charles Frederick. Cleveland Abbe. p. ix-xix.

Engineering news-record. New York. v. 78. 1917.

Newton, C. G. South American rainfall reverse of northern Pacific. Chilean records show precipitation increases from north to south and from coast to mountain. p. 410-411. (May 24.)

Horton, Robert E. Failure of hydraulic projects from lack of water prevented by better hydrology. p. 490-492. (June 7.)

London, Edinburgh, and Dublin philosophical magazine. London. 6 ser. v. 33. June, 1917.

Whipple, F. J. W. The motion of a particle on the surface of a smooth rotating globe. p. 457-471.

Arctowski, Henryk. Normal anomalies of the mean annual temperature variation. p. 487-495.

Meteorological society of Japan. Journal. Tokyo. 36th year. May, 1917.

Okada, T. Some researches in the far eastern seasonal correlations. (Third note.) p. 55-63. [See this issue, p. 238, for the second note; June for the 3d note.]

Nature. London. v. 99. 1917.

Walkden, S. L. Aeroplanes and atmospheric gustiness. p. 225-226. (May 17.)

Harding, Cha[rles]. The past winter. p. 294-295. (June 7.)

Royal meteorological society. Quarterly journal. v. 43. January, 1917.

Brooks, C. E. P. A meteorologist in China. p. 1-14. [Includes meteorological summaries from Wuhu, Chinhiang and Amoy.]

Geddes, A. E. M. The storm of 11th to 13th November, 1915, in its passage over the British Isles. p. 15-27.

Bonacina, L. C. W. Readjustment of pressure differences: a reply to Sir Napier Shaw's criticism. p. 27-28.

Salter, Carle. The measurement of rainfall duration. p. 29-41.

Turner, H. H. Discontinuities in meteorological phenomena. Third note. p. 43-60.

Gold, E[rnest]. Formula for obtaining differences of pressure corresponding with given differences of height. p. 60.

Cave, C. J. P. The forms of clouds. p. 61-82.

Shaw, Napier. Meteorology for schools and colleges. p. 83-89.

Hall, Maxwell. West Indian cyclones and the local wind. Second note. p. 92-95.

Mr. James J. Hicks. p. 99. [Obituary.]

Marriott, W[illiam]. Mr. Edward Mawley. p. 99-101. [Obituary.]

Lempert, R. G. K. Prof. Henrik Mohn, D. Sc. p. 101-102. [Obituary.]

Royal meteorological society. Quarterly journal. v. 43. April, 1917.

Lyons, H[enry] G[eorge]. The distribution of pressure and the air circulation over northern Africa. p. 118-150. [Includes charts of isobars and winds at the surface and at 3,000 m. altitude.]

Royal meteorological society—Continued.

Dines, W[illiam] H[enry]. The heat balance of the atmosphere. p. 151-

Brooks, C. E. P. Continentality and temperature. p. 159-173.

Lyons, H[enry] G[eorge]. Climatological studies. German East Africa. p. 175-195.

Walker, Gilbert T. Correlation in seasonal variations of weather. p. 218-219.

Dines, J[ohn] S[omers]. The accuracy obtainable in barometer readings. p. 219-220.

Hall, Maxwell. The Jamaica hurricane of October 3, 1780. p. 221-225.

Inwards, R[ichard]. William Marriott. 1848-1916. p. 226. [Obituary.]

Royal society of Edinburgh. Proceedings. Edinburgh. v. 37. pt. 2. 1916-1917.

Douglas, C. K. M. On some causes of the formation of anticyclonic stratus as observed from aeroplanes. p. 137-148.

School science and mathematics. Chicago. v. 17. June, 1917.

Brooks, Charles F. The deflective effect of the earth's rotation. p. 517-521.

Science. New York. v. 45. June 15, 1917.

Carey, J. P. The central Illinois tornado of May 26, 1917. p. 613-614.

Scientific American supplement. New York. v. 83. 1917.

McAdie, Alexander. Aviation and aerography. p. 341-342. (Jun. 2.)

Paresce, René. A new system of weather prediction by which conditions may be predicted months in advance. p. 403. (Jun. 30.) [Describes methods of F. Vercelli.]

Scottish meteorological society. Journal. Edinburgh. 3 ser. v. 17. no. 32. 1915.

Mitchell, A. Crichton. On the correlation of the Indian monsoon with other meteorological factors. p. 3-11.

Wrigley, R. W. The Calton Hill rock thermometers. p. 11-17. [An attempt to find periodicities in subterranean temperatures and to correlate with sunspots, etc.]

Mossman, R[obert] C. The temperature of Santiago de Chile for fifty-four years. From 1861 to 1914. p. 17-24.

Watt, A[ndrew]. Big-gun firing and rainfall. p. 27-29.

Watt, A[ndrew]. The rainfall of Cherrapunji. p. 29-31.

Watt, A[ndrew]. Prof. A. J. Herbertson. p. 34-36. [Obituary.]

Scottish meteorological society. Journal. Edinburgh. 3 ser. v. 17. no. 33. 1916.

Douglas, C. K. M. Weather observation from an aeroplane. p. 65-73.

Knott, C. G. The solar radiation constant and associated meteorological problems. p. 74-84.

Shaw, Napier. The distribution of cloud and rain with reference to the center of a cyclonic depression. p. 90-92.

W[att], A[ndrew]. Audibility and meteorological conditions. p. 94-97.

Académie des sciences. Comptes rendus. Paris. Tome 164. 21 mai 1917.

Ballif, L. Sur la détermination de la densité de l'air en fonction de l'altitude. p. 827-828.

Heem en dampkring. Den Haag. 14 Juarg. 1917.

Lulofs, H. J. Aristoteles en Seneca over atmosferischen neerslag. (Bijdrage over de physische geographie der ouden.) p. 171-174; 185-190. (Maart, April.)

Società degli spettroscopisti italiani. Memorie. Catania. v. 6. 1917.

Arctowski, Henryk. Note sur une corrélation entre orages magnétiques et la pluie. p. 33-34. (Marzo.)

Platania, Giovanni. Osservazioni dei punti neutri della polarizzazione atmosferica eseguite in Catania nel 1916. p. 61-62. (Aprile.)

Spain. Observatorio central meteorológico. Anuario. Madrid. Tomo 1. (Suplemento.) 1917.

Lomas, Juan G. de. El observatorio de las Cañadas del Teide. p. 3-10.

Observaciones con globos pilotos en las Cañadas del Teide. [1912-3.] p. 11-52.